



NOTICE OF COMMISSIONING

1824-A-NOC-102



Date: April 23, 2018 – 07:00 am

System ID: 2-103-1

System Description: Unit 2 – GSU-02
GENERATOR STEP UP TRANSFORMER
(230-15-75kV, 150/190MVA)

Contact Name: Julian Blair, Brenton
Sherston & Milton Cabanillas, Norman
Tarran

Contact Number: 63799990, 64422720 &
69804755, 66197102

Fecha: 23 de Abril del 2018 - 07:00 am

ID Sistema: 2-103-1

Descripción del Sistema: GSU-02
TRANSFORMADOR DE PASO DEL
GENERADOR DE LA UNIDAD 2
(230-15-75kV, 150/190MVA)

Nombre Contacto: Julian Blair, Brenton
Sherston & Milton Cabanillas, Norman
Tarran

Número de Contacto: 63799990,
64422720 & 69804755, 66197102

ENGLISH

The Unit 2- GSU-02 - Generator Step Up Transformer is under commissioning.

Access restrictions will be in force. Upon completion the commissioning test, power feed will be reticulated to the equipment's. All equipment access will be locked with appropriate signage. No work is to be conducted on equipment tagged with a Blue Commissioning Tag without approval from the Commissioning Manager. Please see attached drawings.

Commissioning team will be commence April 23, 2018 at 07:00 AM

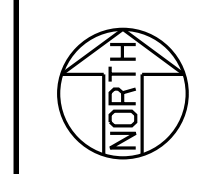
SPANISH

GSU-02-Transformador de paso de generador de la Unidad 2 esta bajo puesta en marcha.

Las restricciones de acceso estarán en vigor para esta área.. Una vez completada las pruebas de puesta en marcha, se pondrá alimentación eléctrica a los equipos. Todos accesos a estos equipos se bloquearán con señalización apropiada. No se realizará ningún trabajo en equipos con etiqueta de puesta en marcha color azul y sin la aprobación del Gerente de Puesta en Marcha. Por favor ver planos adjuntados.

El equipo de puesta en marcha iniciará el 23 de Abril del 2018 a las 7:00 AM.

POST ON ALL PACO SAFETY NOTICE BOARDS
**PACO MANAGERS & SUPERINTENDENTS TO
ENSURE THIS NOC IS COVERED IN TOOLBOX
MEETINGS AND ALL PERSONNEL ARE AWARE OF
THE HAZARDS.**



6	EMBEDDED CONDUIT
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MO-0001	PLOT PLAN
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	VENDOR DRAWINGS
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	NOTES
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NOTES

2) FOR NOTES & LEGENDS REFER DRAWING E0-0600.



Contractors:	Engineers:
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SK E&C USA

Minero Benemé

Project Title: _____

DRAWING TITLE	
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ELECTRICAL INSTALLATION

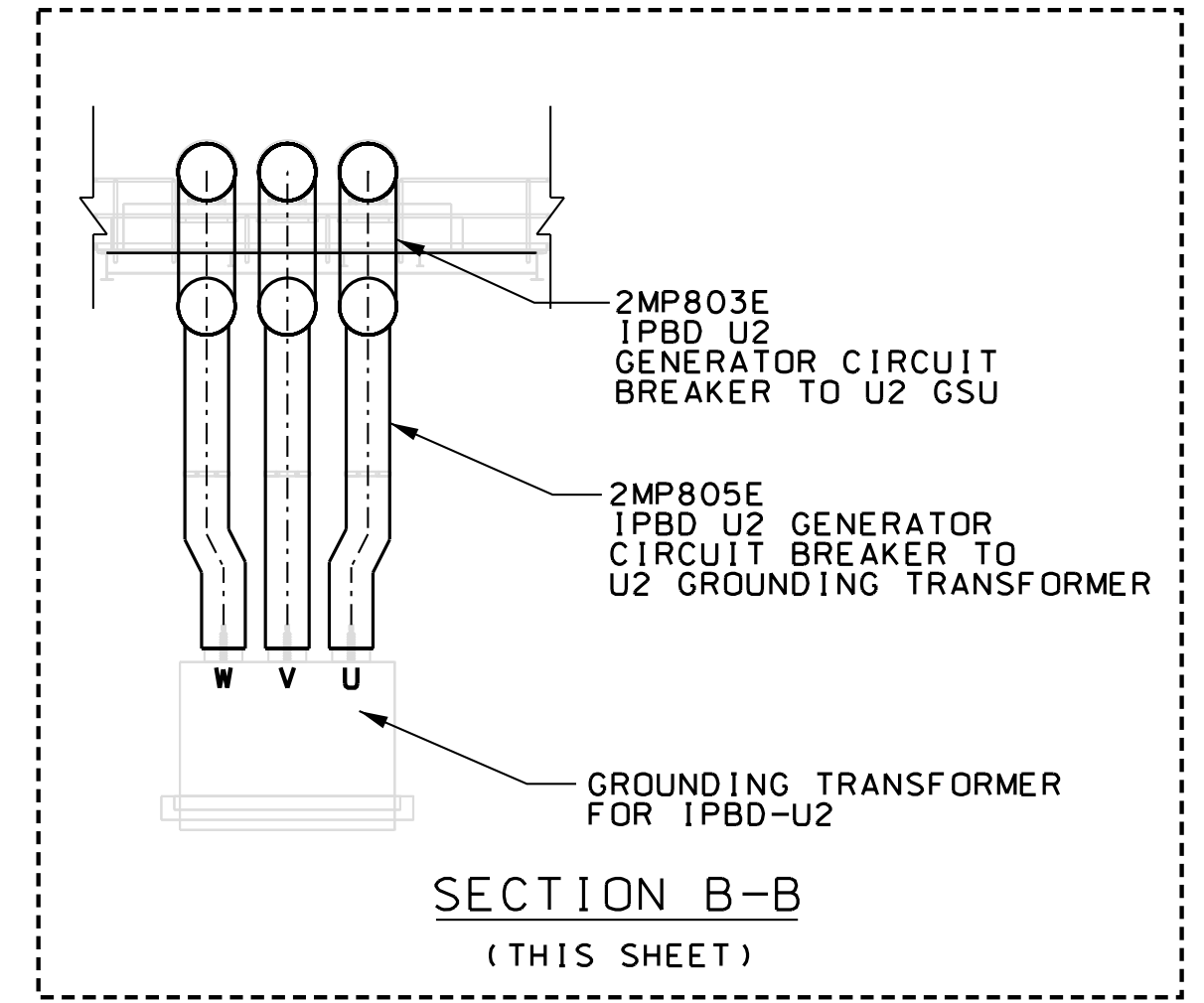
UNIT#2

53 0601

SHEET	001	OF	001
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CAD FILE: E2-0601-001.DGN

SECTION A-A
(THIS SHEET)

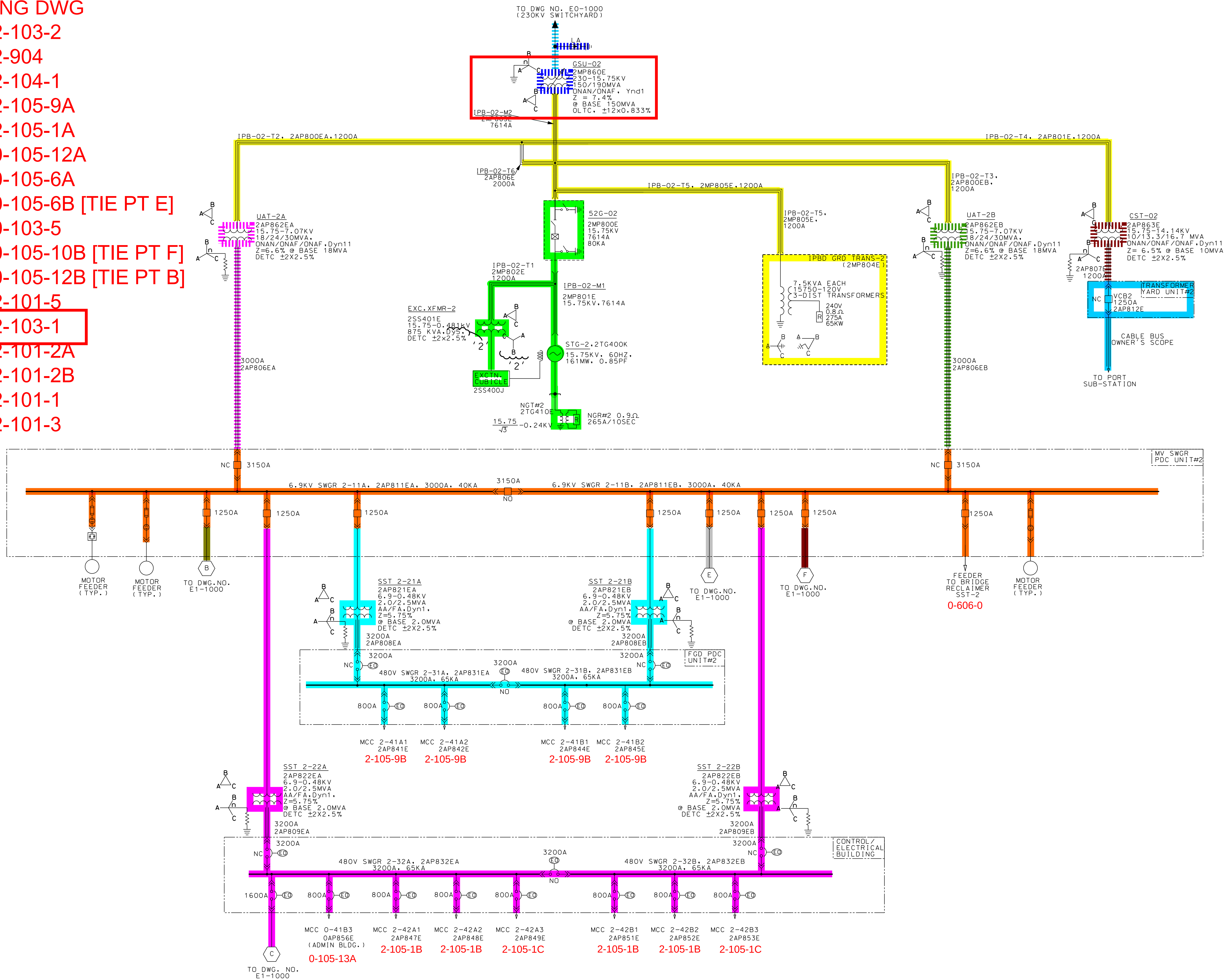


REV.	DATE REL'D.	PREPARED	REVIEWED	APPROVED	PURPOSE
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5	4	3	2
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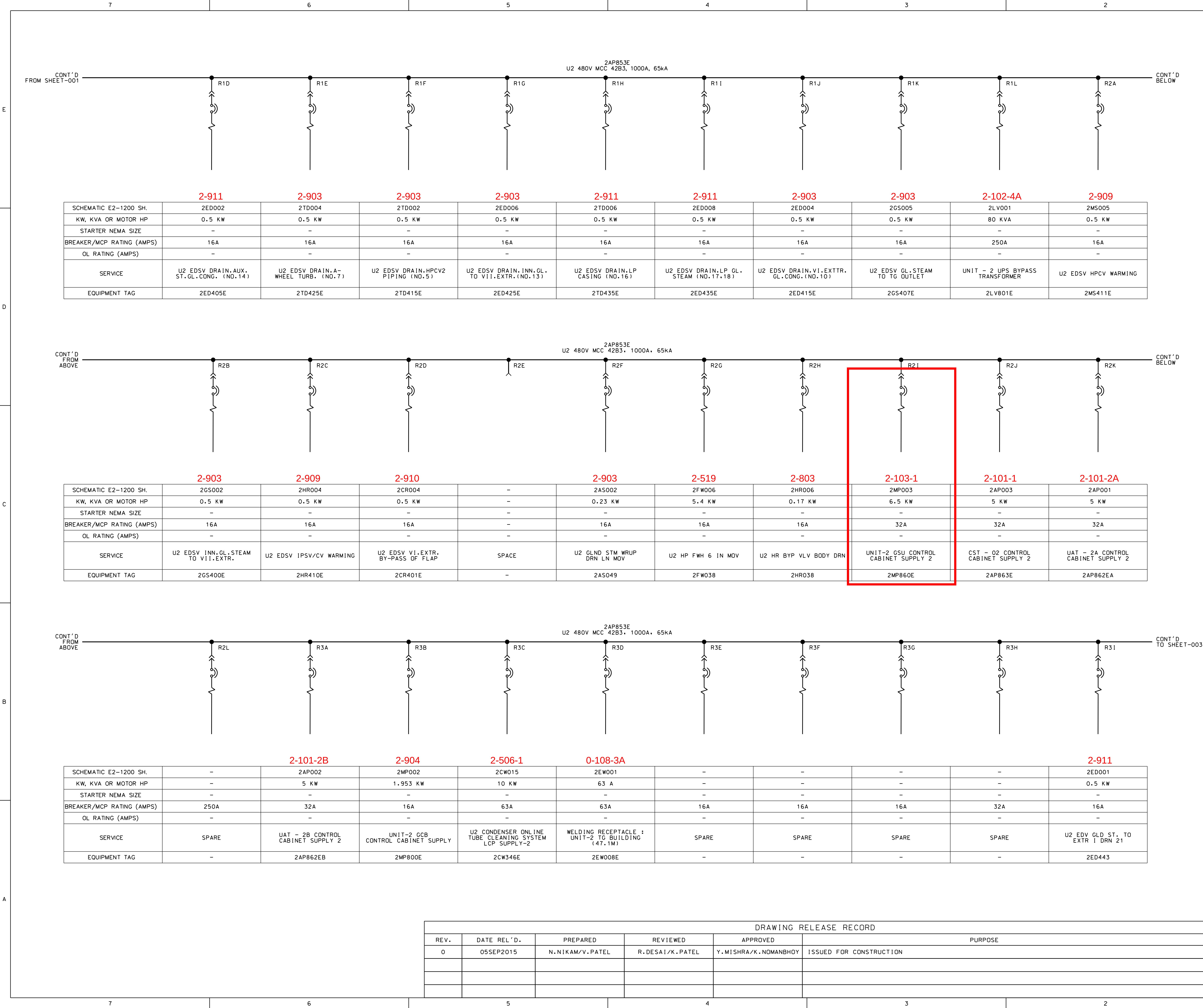
STP SCOPING DWG

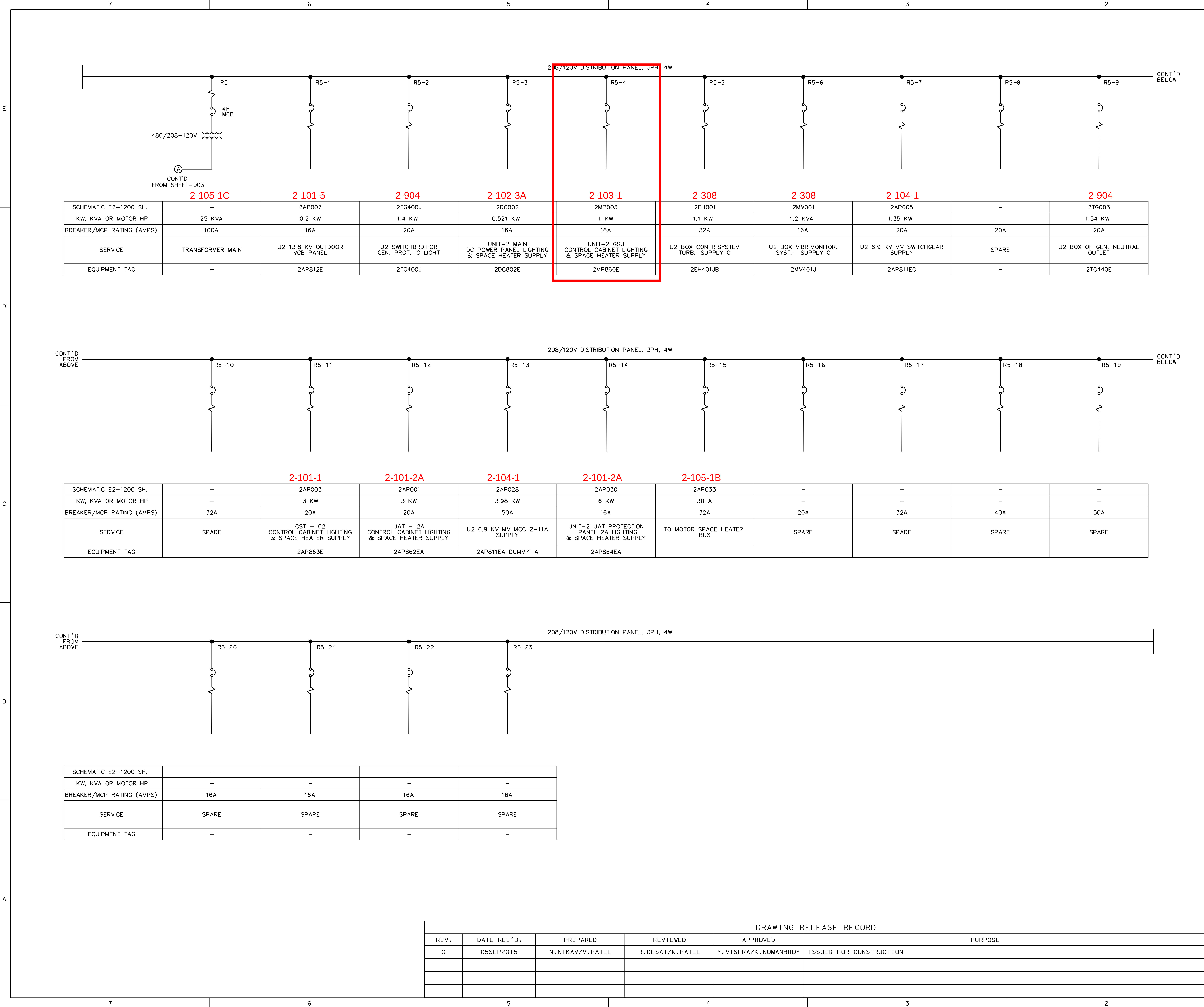
- STP 2-103-2
- STP 2-904
- STP 2-104-1
- STP 2-105-9A
- STP 2-105-1A
- STP 0-105-12A
- STP 0-105-6A
- STP 0-105-6B [TIE PT E]
- STP 0-103-5
- STP 0-105-10B [TIE PT F]
- STP 0-105-12B [TIE PT B]
- STP 2-101-5
- STP 2-103-1
- STP 2-101-2A
- STP 2-101-2B
- STP 2-101-1
- STP 2-101-3



HOLD INFORMATION	
NO.	DESCRIPTION
SYMBOLS	
	ISO PHASE BUSDUCT
	CABLE BUS DUCT
	CABLE
	GENERATOR CIRCUIT BREAKER
	VACUUM CIRCUIT BREAKER (DRAWOUT TYPE)
	LIGHTNING ARRESTER
	ELECTRICALLY OPERATED AIR CIRCUIT BREAKER (DRAWOUT TYPE)
	GENERATOR
	NEUTRAL GROUNDING TRANSFORMER AND RESISTOR
	TWO WINDING TRANSFORMER WITH OLTC
	TWO WINDING TRANSFORMER
	EARTH SWITCH
	SWGR/MCC BUS
	STAR POINT
	STARTER WITH FUSE AND VACUUM CONTACTOR (DRAWOUT TYPE)
	SOFT STARTER
LEGENDS	
STG	STEAM TURBINE GENERATOR
NGT	NEUTRAL GROUNDING TRANSFORMER
NGR	NEUTRAL GROUNDING RESISTOR
IPB	ISOLATED PHASE BUSDUCT
GSU	GENERATOR STEP-UP TRANSFORMER
UAT	UNIT AUXILIARY TRANSFORMER
CST	CLIENT SERVICE TRANSFORMER
SST	STATION SERVICE TRANSFORMER
LA	LIGHTNING ARRESTER
MCC	MOTOR CONTROL CENTER
DG	DIESEL GENERATOR
DETC	DE-ENERGIZED TAP CHANGER
BSDG	BLACK START DIESEL GENERATOR
NOTES	
1. ALL MV & LV SWITCHGEAR BREAKERS AND CONTACTORS SHALL BE ELECTRICALLY OPERATED.	
2. UAT AND CST SECONDARY NEUTRALS SHALL BE EARTHED THROUGH NGR OF RATINGS 3.4 OHM AND 6.8 OHM RESPECTIVELY TO LIMIT THE EARTH FAULT CURRENT UPTO 1200A FOR 10 SEC.	
3. SST SECONDARY NEUTRAL SHALL BE EARTHED THROUGH NGR OF RATING 27.7 OHM TO LIMIT THE EARTH FAULT CURRENT UPTO 10A FOR 10 SEC.	
CONTRACTOR/INSTALLER SHALL TAKE ALL APPROPRIATE PRECAUTIONS TO ENSURE THE SAFETY OF ALL PEOPLE LOCATED ON THE WORK SITE, INCLUDING CONTRACTOR'S/INSTALLER'S PERSONNEL (OR THAT OF ITS SUB-CONTRACTOR(S)) PERFORMING THE WORK.	
Contractors:	Engineers:
Client:	
PROJECT NO.: 12889-001	
Project Title:	
PACO POWER PLANT	
DRAWING TITLE	
ELECTRICAL ONE LINE DIAGRAM	
UNIT 2	
DRAWING NUMBER	
E2-1000	
REVISION	
2	
SHEET 001 OF 001	

DRAWING RELEASE RECORD					
REV.	DATE REL'D.	PREPARED	REVIEWED	APPROVED	PURPOSE
0	06DEC2012	SSA	RKS	SG/KN	FOR CONSTRUCTION
1	14MAY2014	N.NIKAM/K.VASANI	R.DESAI/K.PATEL	Y.MISHRA/K.NOMANBHAY	ISSUED FOR CONSTRUCTION WITH OPTION 2A UPDATES
2	20OCT2014	R.JOSHI/K.VASANI	R.DESAI/K.PATEL	Y.MISHRA/K.NOMANBHAY	ISSUED FOR CONSTRUCTION





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NOTES

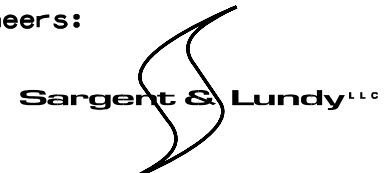
1. FOR SYMBOLS AND REFERENCE DRAWINGS REFER SHT.001 OF THIS DRAWING.

CONTRACTOR/INSTALLER SHALL TAKE ALL APPROPRIATE PRECAUTIONS TO ENSURE THE SAFETY OF ALL PEOPLE LOCATED ON THE WORK SITE, INCLUDING CONTRACTOR'S/INSTALLER'S PERSONNEL (OR THAT OF ITS SUB-CONTRACTOR(S)) PERFORMING THE WORK.

Contractors:



Engineers:



Client:



PROJECT NO.: 12889-001

Project Title:

PACO POWER PLANT

DRAWING TITLE

KEY DIAGRAM
U2 480V MCC 42A3
(2AP849E)

DRAWING NUMBER

E2-1117

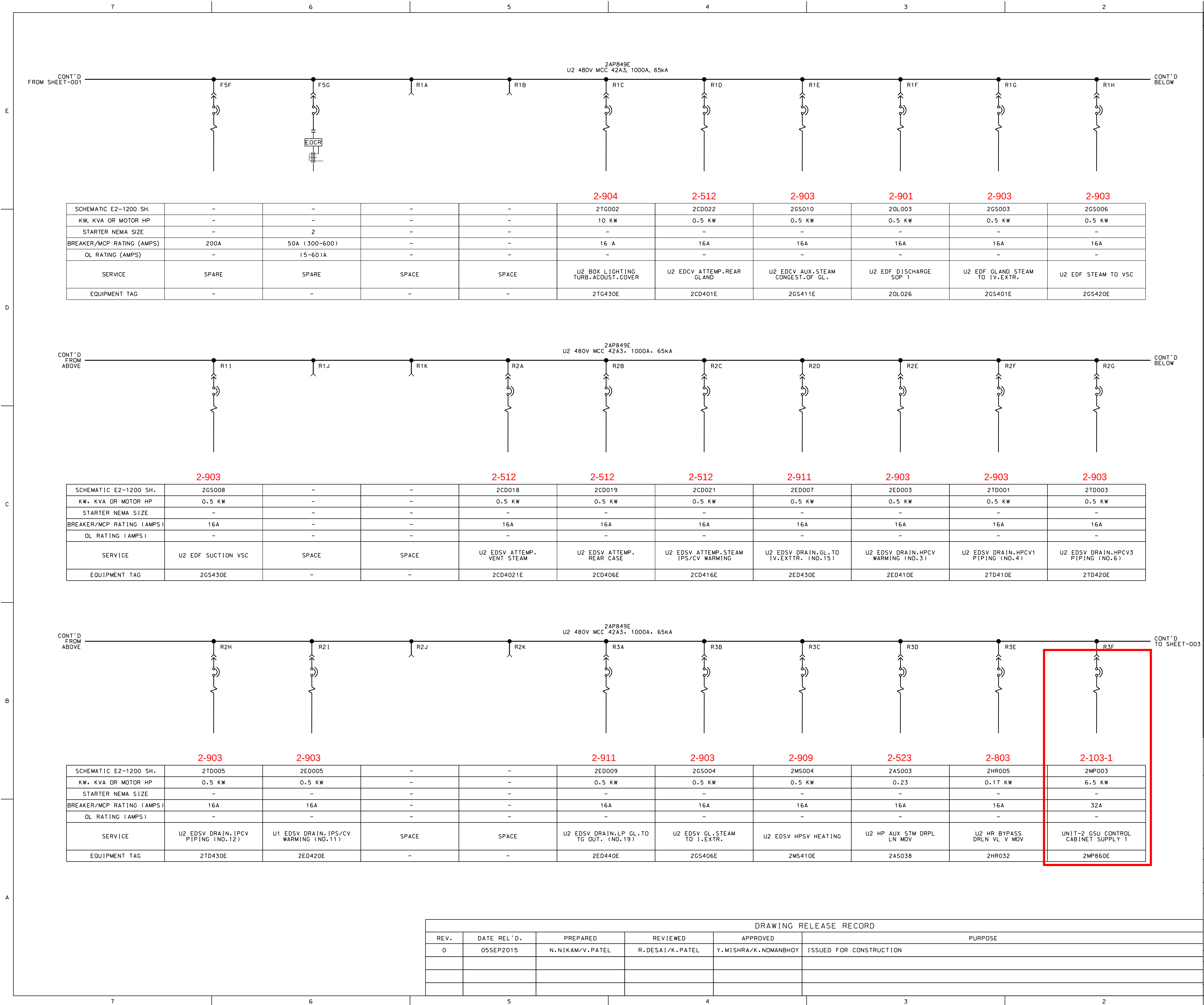
REVISION

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SHEET 004 OF 004

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CAD FILE: E2-1117-004.DGN



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NOTES			
1. FOR SYMBOLS AND REFERENCE DRAWINGS REFER SHT.001 OF THIS DRAWING.			
Rev 1 JTB 12/12/16 -Revised Brkr R3D STP			
CONTRACTOR/INSTALLER SHALL TAKE ALL APPROPRIATE PRECAUTIONS TO ENSURE THE SAFETY OF ALL PEOPLE LOCATED ON THE WORK SITE, INCLUDING CONTRACTOR'S/INSTALLER'S PERSONNEL (OR THAT OF ITS SUB-CONTRACTOR(S)) PERFORMING THE WORK.			
Contractors:  SK E&C USA		Engineers:  Sargent & Lundy	
Client:  Minera Panamá			
PROJECT NO.: 12889-001			
Project Title: PACO POWER PLANT			
DRAWING TITLE KEY DIAGRAM U2 480V MCC 42A3 (2AP849E)			
DRAWING NUMBER E2-1117			REVISION 0
SHEET 002	OF 004		

Startup Code	Equipment No	System Code	Equipment Description	Equipment Type	Furnish Spec
2-103-1	2MP860E	MP - MAIN POWER	U2 GENERATOR TRANSFORMER	Transformer	P-6051
2-103-1	2MP861E	MP - MAIN POWER	U2 GENERATOR TRANSFORMER MARSHALLING BOX	General Equipment	P-6051